

NAMAN YESHWANTH KUMAR

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EDUCATION

Master of Science

Arizona State University - Computer Eng (GPA 3.8/4.0)

Expected: May 2026

Tempe, AZ

- Relevant course work: Artificial Intelligence, Machine Learning, Foundations of Algorithms, Data Structures, Reinforcement Learning in Robotics, Deep Learning, Computer Vision, Advanced Computer Architecture, Software Engineering

Nanodegree - Self-Driving Car Engineer

February 2023

Udacity

- Key Areas: Machine Learning, Sensor Fusion, Computer Vision, Path Planning, and Control, with hands-on projects in object detection, trajectory tracking, and autonomous vehicle motion

Bachelor of Engineering

BMS College of Engineering - Electrical and Electronics Eng

June 2022

Bengaluru, India

TECHNICAL SKILLS

ML & Deep Learning: PyTorch | TensorFlow | Deep Learning Architectures | Transformers | LLMs | Generative AI | Neural Networks | Machine Learning

Programming & Engineering: Python | C++ | JavaScript | TypeScript | HTML | CSS | Software Engineering | Data Structures | Algorithms

Data & Cloud Technologies: Big Data | Distributed Computing | Cloud Platforms | Docker | SQL | Data Analytics | Real-time Systems

Development & Tools: React | Front-end Frameworks | REST APIs | Git | MATLAB | Plotly | Simulink | Shell Script

WORK EXPERIENCE

Software Developer

NCR GOLD

October 2022 - April 2024

Bengaluru, India

- Designed and deployed a custom ordering platform (Django) with real-time data processing to streamline inventory and billing for a wholesale jewelry business; processed 10,000+ orders with improved efficiency and performance analytics.
- Containerized applications using Docker and integrated AWS cloud deployment with distributed computing capabilities, providing scalable performance, seamless updates, and robust monitoring pipelines.

Research Intern

Indian Institute of Science

October 2021 - August 2022

Bengaluru, India

- Led the Propulsion Circuit Team, optimizing a 1.5kW axial flux BLDC motor using advanced algorithms and simulation in Ansys Maxwell; boosted efficiency and responsiveness by implementing machine learning-driven optimization for material and coil designs.
- Conducted research on speed control algorithms and battery management systems for eVTOL aircraft using Simulink and deep learning techniques, contributing to significant improvements in real-time performance and system reliability.

PROJECT EXPERIENCE

Trezzit - Full Stack Bill Splitting Application

February 2025 - Present

- Engineered Trezzit, a full-stack expense management application that solves the dual challenges of intuitive item-wise bill splitting and integrated personal finance tracking using AI-powered categorization.
- Managed the complete project lifecycle, acquiring and supporting an initial beta community of 120+ active users from the ASU student body.
- Currently leading the next phase of growth, focused on scaling the user base to 1,000 members on campus by leveraging iterative development and community feedback. Tech Stack: Django | React | Google Generative AI (Gemini) | Material-UI | Docker

Intel Automated Self-Checkout (Open Source Contributor)

January 2025 - February 2025

- Developed a framework in Python to publish and analyze LiDAR sensor data for autonomous checkout systems; successfully merged contributions to the main branch after comprehensive code review.
- Leveraged Docker and CI/CD pipelines, collaborating with a distributed team to enhance sensor fusion accuracy.

Raspberry Pi Self-Driving Car

February 2022 - July 2022

- Developed an autonomous vehicle using Raspberry Pi and Arduino, featuring lane detection, traffic sign recognition, and seamless integration via the I2C communication protocol.
- Streamlined data collection and neural network training with a Bluetooth joystick mode in a collaborative team effort; project received the Best Project Award in the EEE Department among approximately 40 submissions.

AWARDS & HONORS

- Won the 'Best Use of AI' award at Strategy X DevHacks'25 at ASU for developing AdaptED AI, a platform leveraging Google's Gemini AI to generate personalized learning paths and resources for students.
- Secured second place in the Hack SoDA 2024 at ASU with a team of four, developing PassGen, a secure and offline Chrome Extension for generating unique passwords, during a 24-hour hackathon sponsored by Amazon.
- Ranked among the Top Ten teams in the e-Yantra national-level robotics competition organized by IIT Bombay, for designing and developing a self-balancing dairy bike on CoppeliaSim, February 2022.